

BookletChartTM

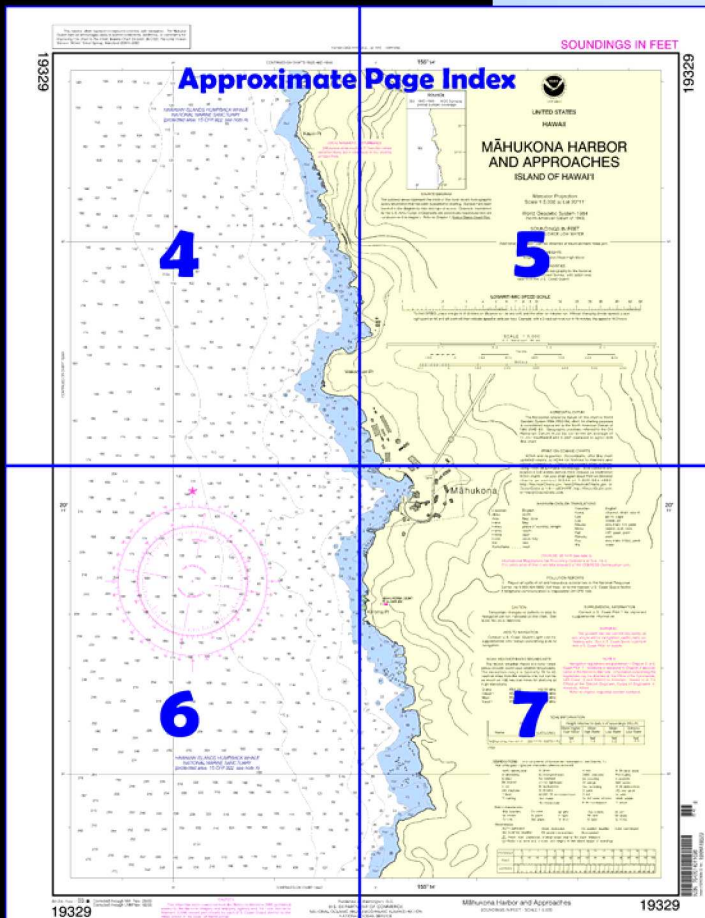
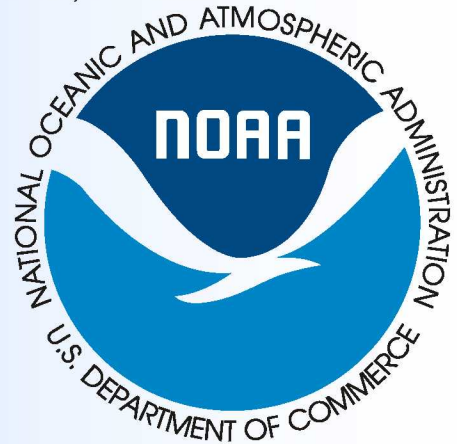
Mahukona Harbor and Approaches

(NOAA Chart 19329)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ✓ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ✓ Convenient size
- ✓ Up to date with all Notices to Mariners
- ✓ United States Coast Pilot excerpts
- ✓ Compiled by NOAA, the nation's chartmaker.



Home Edition (not for sale)



What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

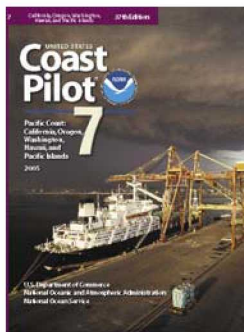
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 7, Chapter 14 excerpts]

(204) **Waiiahukini**, a small fishing village at the base of **Pali o Kulani**, is marked by a patch of white sand. **Kā'iliki'i (Kailikii Shoal)** extends about 0.5 mile offshore to the W and N of the landing.

(278) **Mahukona Harbor** is a small, open bight 10 miles NW of Kawaihae and 6 miles SW of Upolu Point. The village of **Mahukona** consists of a few houses in an algaroba grove near the beach, and abandoned warehouses and oil tanks. The shore is rocky,

and the slopes back of the village are partially covered with algaroba trees.

(279) **Mahukona Light** (20°10.8'N., 155°54.1'W.), 64 feet above the water, is shown from a 22-foot white pyramidal concrete tower on Kaoma Point, S of the village.

Magnetic disturbance

(280) Differences of as much as 3° from normal variation have been observed in the vicinity of Kauili Point about 0.7 mile N of Mahukona.

(281) Anchorage may be selected 0.2 mile SW of Makaohule Point, in depths of 10 to 15 fathoms, sand and coral bottom. An anchorage with less wind can be found 0.3 mile NW of the point and about 400 yards off the beach.

(282) Reports indicate that the inshore current usually sets N with considerable velocity. However, during the period of current observations the average N drift was about 0.2 knot, both N and S velocities of nearly 1 knot were measured, and the tidal current averaged less than 0.2 knot at strength. During the observations, winds were light to moderate and variable in direction. Strong offshore winds, accompanied by violent gusts from varying directions, are frequently experienced during the normal NE trades. Because of these conditions, vessels should anchor with plenty of cable and have a second anchor ready to let go.

(283) The public landing is at the head of the bight and a private landing is on the N shore. Both landings are for small boats only. Provisions are available.

Table of Selected Chart Notes

Corrected through NM 11 Nov.

HEIGHTS
Heights in feet above Mean High Water.

WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

Nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

O'ahu	KBA-99	162.55 MHz
Hawai'i	KBA-99	162.55 MHz
Maui	KBA-99	162.40 MHz
Kaua'i	KBA-99	162.40 MHz

TIDE

NOTE A
Navigation regulations are published in Chapter 2, Coast Pilot 7. Additions or revisions to Chapter 2 are listed in the Notice to Mariners. Information concerning regulations may be obtained at the Office of the Commandant, U.S. Coast Guard District in Honolulu, Hawaii or at the Office of the District Engineer, Corps of Engineers, Honolulu, Hawaii.
Refer to charted regulation section numbers.

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 7 for important supplemental information.

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

LOCAL MAGNETIC DISTURBANCE
Differences of as much as 3° from the normal magnetic variation have been observed in the vicinity of Kaula Point.

Updated weekly by NOAA notices to mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, <http://NauticalCharts.gov>, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, <http://OceanGrafix.com>, or help@OceanGrafix.com.

Mercator Projection
Scale 1:5,000 at Lat 20°11'

World Geodetic System 1984
(North American Datum of 1983)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

AUTHORITIES
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the U.S. Coast Guard.

POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility. Telephone communication is impossible (33 CFR 153).

CAUTION
This chart has been corrected from the Notice to Mariners (NM) 11/03 weekly by the National Imagery and Mapping Agency and the Local Mariners (LNM) issued periodically by each U.S. Coast Guard district. Dates shown in the lower left hand corner.

COLREGS, 80.1410 (see note A)
International Regulations for Preventing Collisions at Sea, 1972.
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

Name	(LAT/LONG)	High water	High water	Low water	Low water
Māhukona, Hawai'i I	(20°11'N/ 155°54'W)	feet 2.1	feet 1.6	feet 0.2	feet -1.0

(703)

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)
Aids to Navigation (lights are white unless otherwise indicated):

AFRQ	seemautical	G	mean	N	run	R	TD	earlier	traser
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Formerly C&GS 4101, 1st Ed., Jul. 1910 KAPP 2782

**HAWAIIAN ISLANDS HUMPBACK WHALE
NATIONAL MARINE SANCTUARY**
(protected area: 15 CFR 922; see note A)

LOCAL MAGNETIC DISTURBANCE
Differences of as much as 3° from the normal variation have been observed in the vicinity of Kaula Point.

The outlined areas represent the survey information that has been banded in this diagram by date by the U.S. Army Corps of Engineers. Refer to the notes for details not shown on this diagram. Ref.

To find S...
right point...

Joins page 6

4



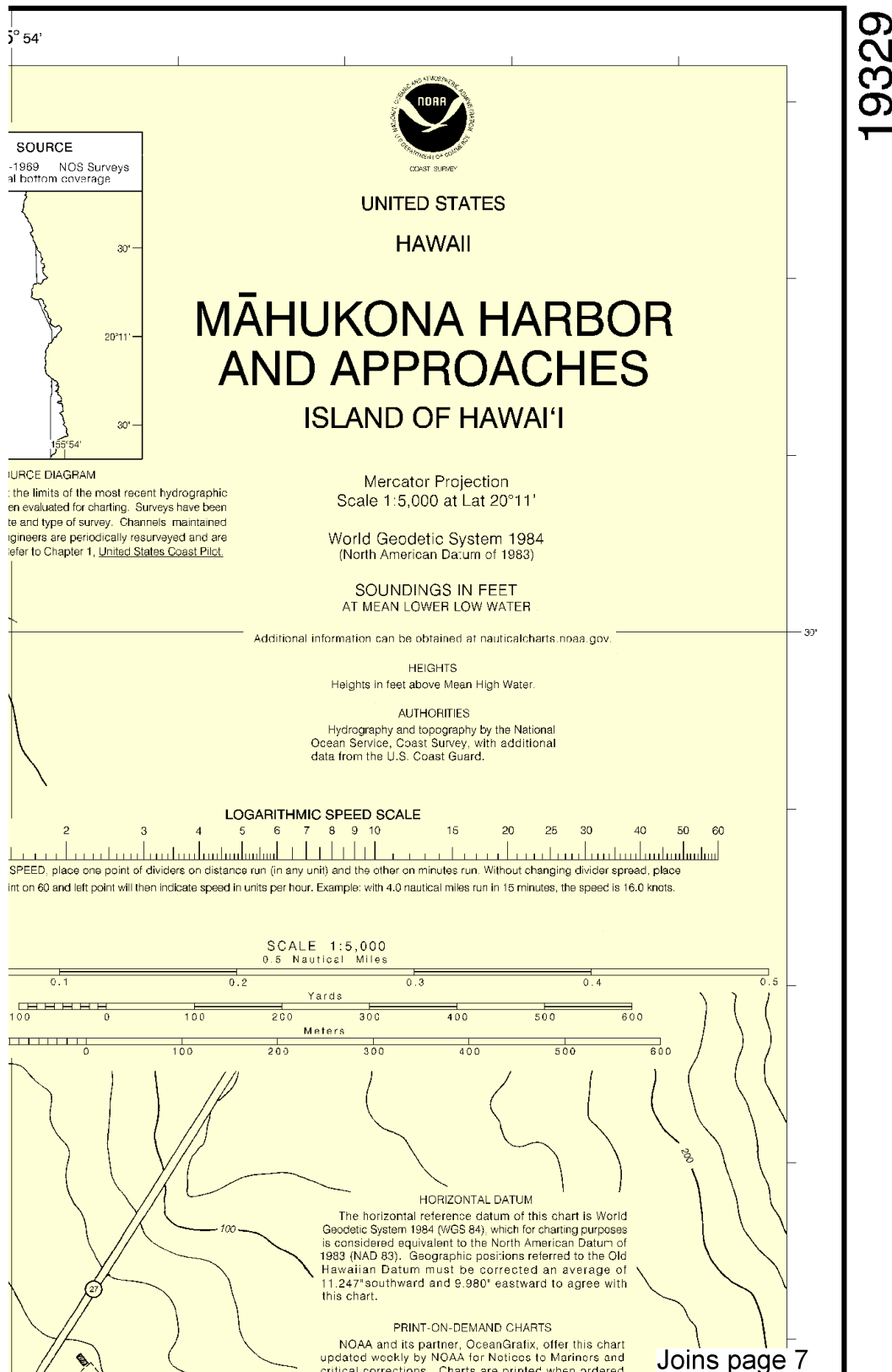
Printed at reduced scale.

SCALE 1:5,000
0.5 Nautical Miles

See Note on page 5.



SOUNDINGS IN FEET



This BookletChart was reduced to 75% of the original chart scale.
The new scale is 1:6667. Barscales have also been reduced and
are accurate when used to measure distances in this BookletChart.

20°
11'

30'

HAWAIIAN ISLANDS HUMPBACK WHALE
NATIONAL MARINE SANCTUARY
(protected area: 15 CFR 922; see note A)

MAHUKONA LIGHT
Fl 4s 64ft 8M

Kāōma Pt

CONTINUED ON CHART 19327

155°

8th Ed., Nov. / 03 ■ Corrected through NM Nov. 29/03
Corrected through LNM Nov. 18/03

19329

CAUTION

This chart has been corrected from the Notices to Mariners (NM) published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

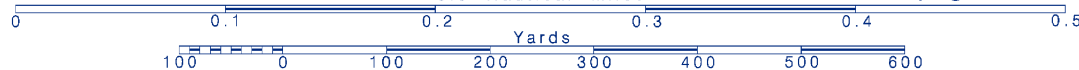
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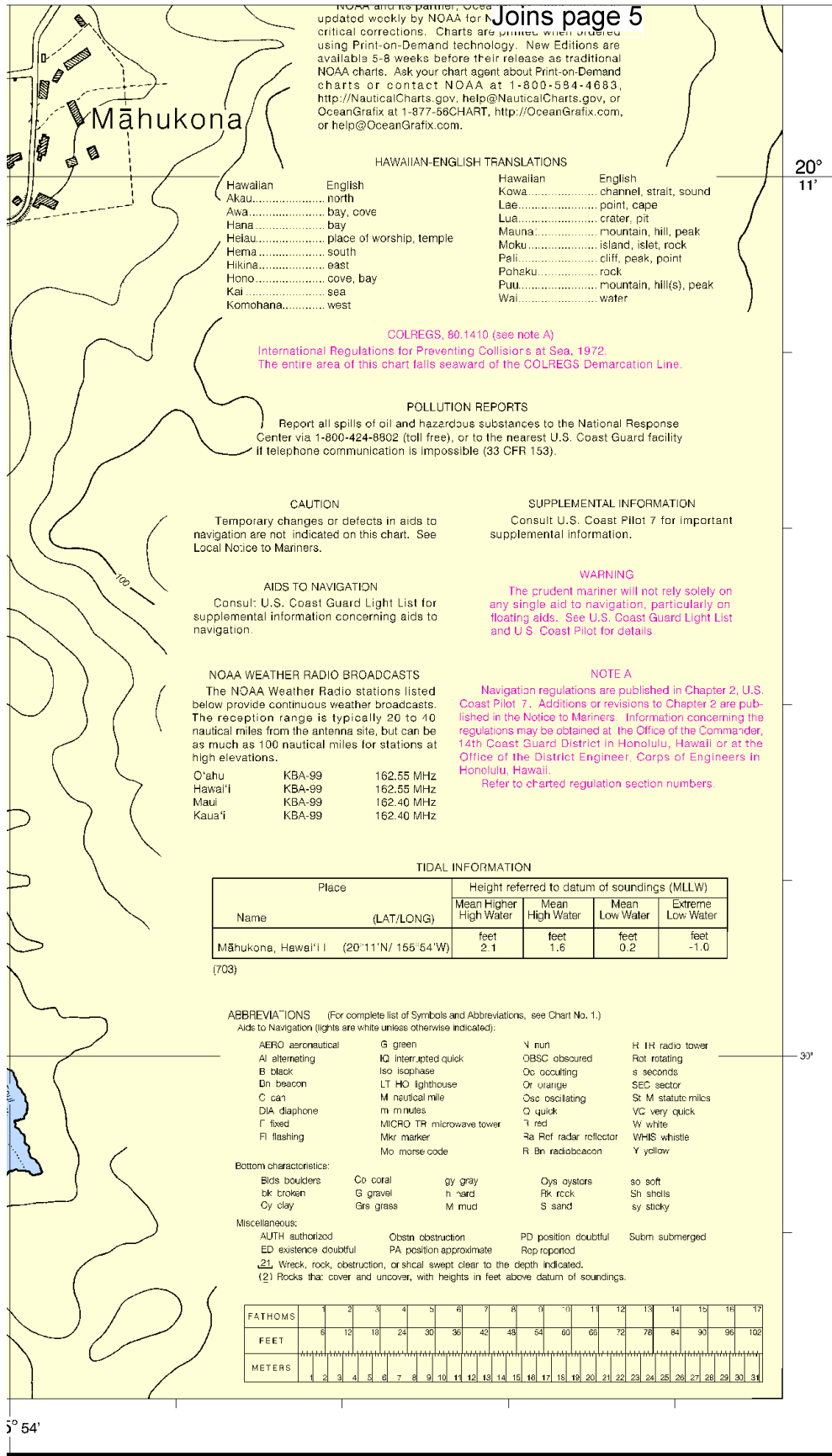


Printed at reduced scale.

SCALE 1:5,000
0.5 Nautical Miles

See Note on page 5.





Māhukona Harbor and Approaches
SOUNDINGS IN FEET - SCALE 1:5,000

19329

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.

Coast Guard Search & Rescue – 510-437-3700

Coast Guard Search & Rescue – 808-541-2500

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENC[®]) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNC[™]) – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts[™] – PocketCharts[™] are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot[®] – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm>.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.